

E325 RELAY (3PDT/25A)

Built to MIL-PRF-83536

FEATURES

- Balanced force design provides the benefit of consistently high contact pressure, reduced bounce, and less arching leading to extended contact life
- A variety of coil options are available which allow AC and DC control
- Welded hermetically sealed, non-corrosive enclosure
- Wide choice of mounting and terminal styles

APPLICATIONS

- Rail
- Aerospace
- Ground vehicle
- Built to MIL-PRF-83536 for severe condition applications

GENERAL CHARACTERISTICS

- No. of Poles: 3 Form C (3PDT)
- Dimensions: 1.025" x 1.025" x 1.010"
(26.0 x 26.0 x 25.7) mm
- Weight
Mounting Code 4: 0.21 lb. (95.6 grams)
All Others: 0.18 lb. (82 grams)

SWITCHING CHARACTERISTICS

- Operate Time @ +25°C
EA325: 20 ms. Max
All Others: 15 ms. Max
- Bounce Time
EA325: 2 ms. Max
All Others: 1 ms. Max
- Mechanical Life: Up to 400,000 Cycles

ENVIRONMENTAL CHARACTERISTICS

- Temperature Range: -70°C to +125°C



- Vibration (Sinusoidal)
Mounting Code 3: 20g 57-3,000 Hz
All Others: 30g 10-3,000 Hz
- Shock (Any Axis)
Mounting Code 3: 100g, 6 ms
All Others: 200g, 6 ms
- Seal: Hermetic (1×10^{-8} atm cm^3/s)

ELECTRICAL CHARACTERISTICS

- Contact Voltage Drop (at Rated Resistive Load)
Initial: 150 mV Max.
After Guaranteed Life: 175 mV Max.
- Dielectric Strength @ Sea Level

	Coil to Case	All Other Points
Initial @ 60 Hz:	1,000 V _{rms}	1,250 V _{rms}
After Life Test @ 60 Hz:	1,000 V _{rms}	1,000 V _{rms}
- Insulation Resistance
Initial: 100 MΩ Min, @ 500 Vdc
After Life Test: 50 MΩ Min, @ 500 Vdc

E325 Relay (3PDT/25A)

Built to MIL-PRF-83536

CONTACT RATING (AMPS)

Type of Load (High Level)	Cycles x 10 ³	28 Vdc	115 Vac 400 Hz 1 Phase	115/200 Vac 400 Hz 3 Phase
Resistive	50	25	25	25
Inductive	10	12	N/A	N/A
Inductive	20	N/A	15	15
Motor	50	10	10	10
Lamp	50	5	5	5

Note: 115 Vac 50/60 Hz life reduced to 10,000 Cycles for all load types

PART NUMBERING

BASIC SERIES

E325	3PDT
ES325	3PDT w/ Internal Voltage Suppression
EA325	3PDT w/ AC Coil

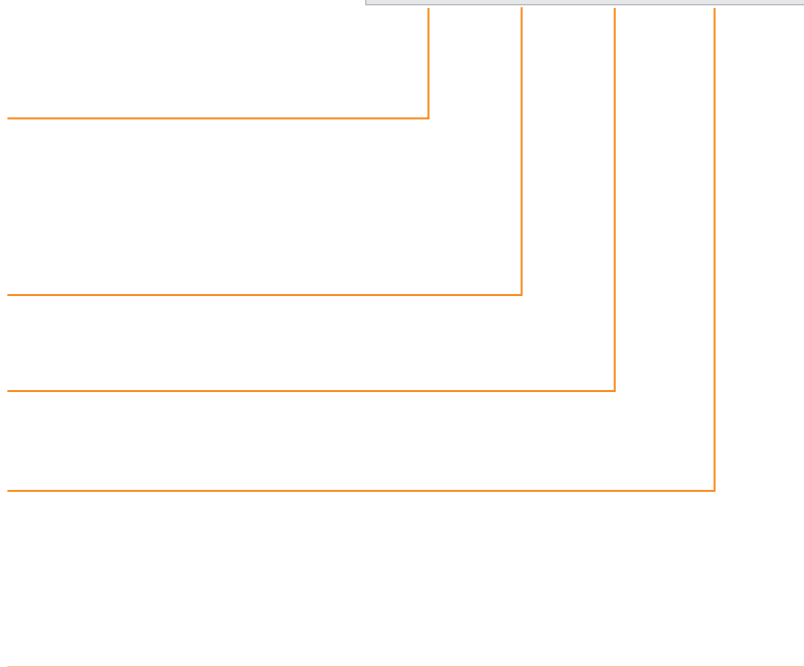
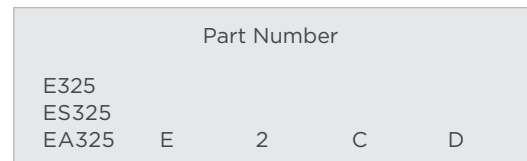
COIL CODE

MOUNTING CODE

TERMINAL CODE

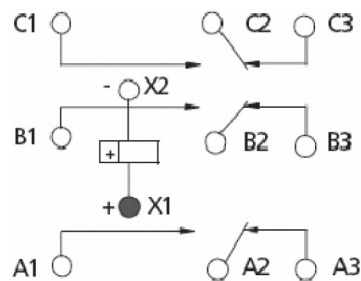
OPTIONS

D	Catalog Standard
A	Delete Arc Barriers
xxxx	Special Code, Assigned by TE

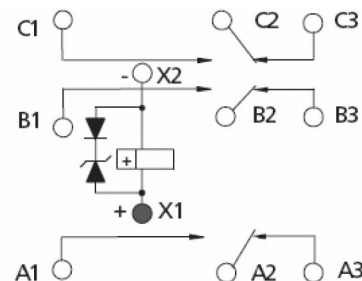


CIRCUIT DIAGRAM

*Y COIL LAST ENERGIZED



E325 / EA325



ES325 w/Internal Voltage Suppression

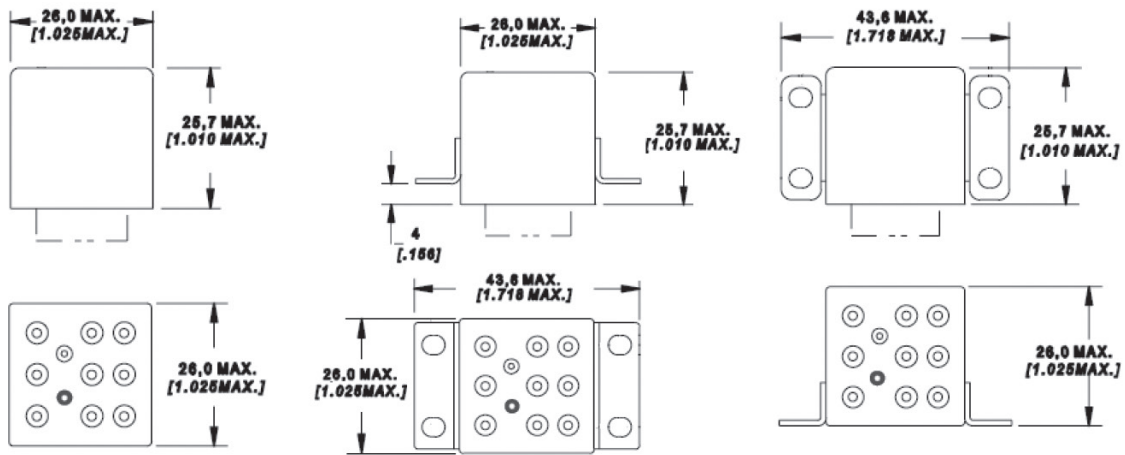
E325 Relay (3PDT/25A)

Built to MIL-PRF-83536

COIL CODE

Coil Code	Vdc						Vac	
	A	B	D	E	G	J	L	N
Nominal coil voltage: 6 12 26.5 28 48 110	6	12	26.5	28	48	110	115 400 Hz	115 50-400 Hz
Maximum pick-up voltage @ +25°C	3.2	6.5	13.5	14	24	55	72	72
Maximum pick-up voltage @ +125°C	4.5	9	18.7	19.5	36	70	90	90
Maximum hold voltage @ +125°C	2.3	4.5	7	7	14	30	30	40
Minimum drop-out voltage @ -70°C	0.25	0.5	1.2	1.5	2	5	5	5
Coil resistance ($\Omega \pm 10\%$ @ +25° C)	18	70	290	290	955	5000	-	-
Max Coil Transient suppression (ES325 Only) Vdc:	-42	-42	-42	-42	-100	-227	N/A	N/A

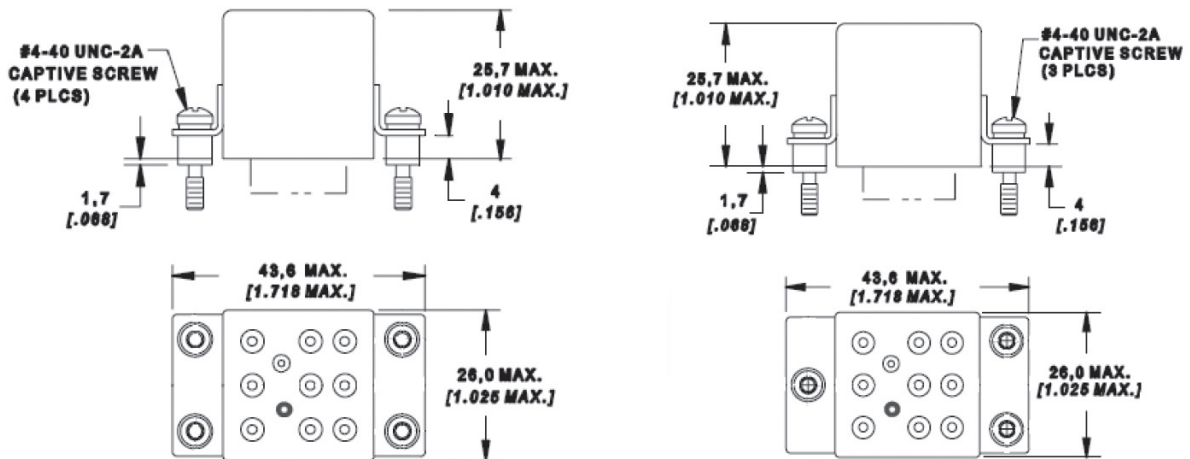
MOUNTING CODE



Mount 1

Mount 2

Mount 3



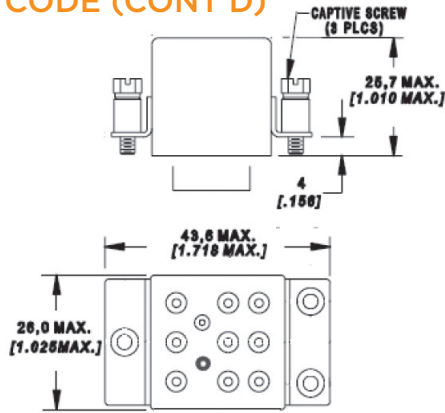
Mount P

Mount G

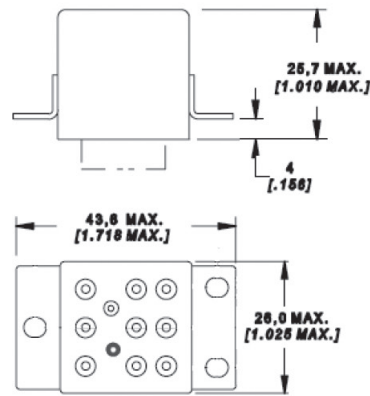
E325 Relay (3PDT/25A)

Built to MIL-PRF-83536

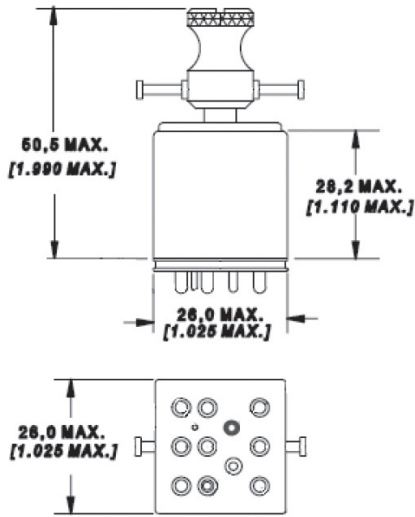
MOUNTING CODE (CONT'D)



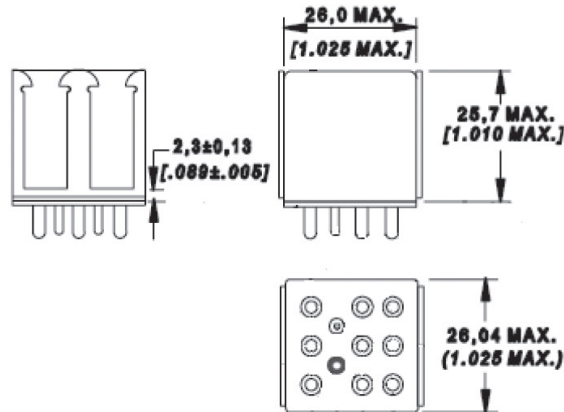
Mount 8: M3
Mount C: #4-40 UNC



Mount H

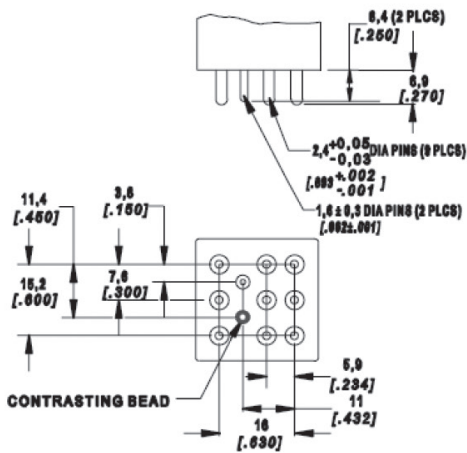


Mount 5: Requires Terminal C

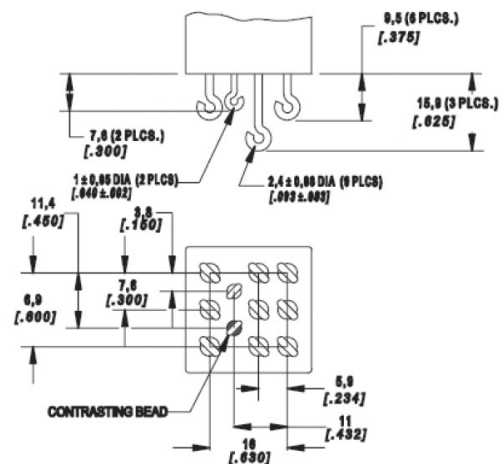


Mount 6: Requires Terminal C

TERMINAL CODE

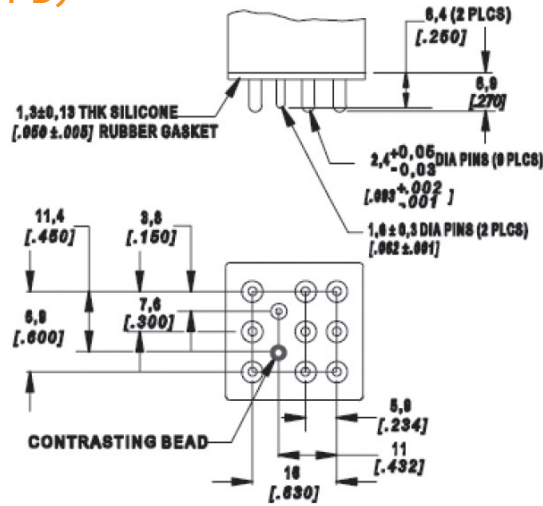


Terminal A: Tin Plated
Terminal B: Solder Dipped

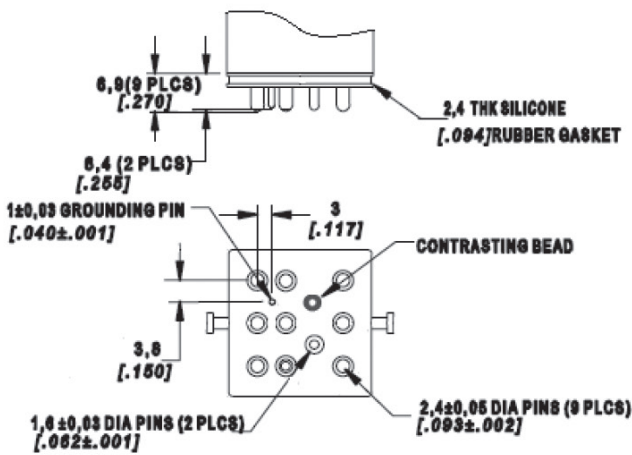


Terminal H: Tin Plated
Terminal J: Solder Dipped

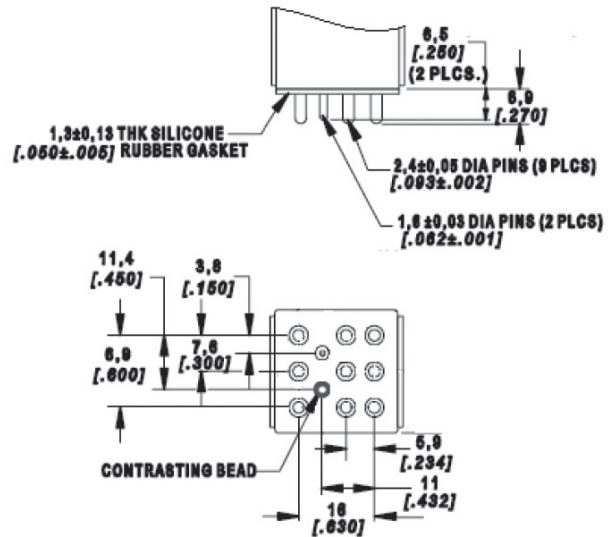
TERMINAL CODE (CONT'D)



Terminal C: Gold Plated



Terminal C: Gold Plated (Mount 5)



Terminal C: Gold Plated (Mount 6)

Connect With Us

We make it easy to connect with our experts and are ready to provide all the support you need. Visit te.com/support to chat with a Product Information Specialist.

te.com/dri-relays

TE, TE Connectivity, TE connectivity (logo), and EVERY CONNECTION COUNTS are trademarks owned or licensed by the TE Connectivity Ltd. family of companies. Other product names, logos, and company names mentioned herein may be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

©2025 TE Connectivity. All Rights Reserved.

adm-dri-E325-ds-en-0824 01/25